APPENDIX B

ARCHAEOLOGICAL QUESTIONNAIRE

Tidewater Atlantic Research, Inc.
Outer Continental Shelf Submerged Cultural Resources Survey

Purpose:

Tidewater Atlantic Research, Inc. (TAR), of Washington, North Carolina is working with Research Planning Inc., of Columbia, South Carolina to help Minerals Management Service (MMS) identify state of the art methods and equipment for submerged cultural resource remote sensing surveys and to identify parameters for areas of avoidance designed to protect submerged cultural resources. To accomplish those objectives TAR project personnel will be collecting information by communicating with individuals, organizations, institutions, state, Federal and foreign government agencies and equipment manufacturers involved in remote sensing and cultural resource management. In developing recommendations for remote sensing equipment and survey methodology TAR personnel will consider such issues as:

1. State-of-the-art remote sensing equipment and its limitations
2. Survey methodology
3. Target signature assessment criteria
4. Scope and nature of the resource base
5. Report formats
6. Survey data and geographic information systems

The issue of zones of avoidance and protection will also be examined. In conjunction with efforts to enhance the effectiveness of avoidance as an alternative to mitigation, TAR will consider such issues as:

1. Submerged cultural resource site typology and characteristics
2. Avoidance zone characteristics
    a. Size
    b. Shape
    c. Orientation
3. Environmental considerations
    a. Depth
    b. Currents
    c. Wave motion
    d. Sediment character
4. Dredging
    a. Type of operation
    b. Positioning control
    c. Depth below bottom
5. Extant zone characteristics
6. Monitoring

The attached form will serve as the basis for collecting our preliminary data. Please consider taking the time to respond. Your input will be a valuable addition to the data that will serve as the basis for developing a comprehensive response to the important issues Minerals Management Service has identified.

Submerged Cultural Resource Survey Questionnaire

Respondent Name:_____
Agency/Organization:_____
Position:_____
Address:_____
City:_____
State/Country:_____
Email Address:_____
Phone Number:_____
Fax Number:_____

Agency/Organization Mandate

Does your organization/agency promulgate rules or regulations concerning the protection and management of submerged cultural resources? Yes___ No

Are those regulations/rules published or publicly disseminated? Yes___ No___

Could a copy be forwarded to our office for examination? Yes___ No___

Survey Equipment and Methodology

What remote sensing equipment is required for submerged cultural resource surveys?

Magnotometer
Type(s) :_____
Side scan sonar
Type(s) :_____
Subbottom profiler
Type(s) :_____
Fathometer
Type(s) :_____

What data collection requirements have been adopted by your organization?

_____

What data analysis requirements have been adopted by your organization?

_____

What data presentation requirements have been adopted by your organization?

Do you have anomaly specific remote sensing data that has been ground truthed?

Is that information available for comparison? Yes___ No___

How would you rate the correlation between anomalies identified as potentially significant and historically or archaeologically significant submerged cultural resources?

What do you feel is the ideal remote sensing equipment array and methodology for conducting submerged cultural resource surveys?

What do you feel are the most significant deficiencies in locating and assessing submerged cultural resources?

How would you assess the existing remote sensing survey parameters?

Historic Sites

What do you feel are the detectable characteristics of submerged historic sites?

What types of equipment and survey parameters are effective in identifying historic sites.

How can their areal extent be defined?

Can zones of avoidance be effectively employed in protecting historic sites?

What kind of monitoring program would be effective?

Prehistoric Sites

What do you feel are the detectable characteristics of submerged prehistoric sites?

What types of equipment and survey parameters might be effective in identifying prehistoric sites?

How can their areal extent be defined?

Can zones of avoidance be effectively employed in protecting prehistoric sites?

What kind of monitoring program would be effective?

Avoidance Zones

Does your organization/agency employ or accept zones of avoidance in lieu of other mitigation options?

How are the characteristics of zones of avoidance determined?

What environmental factors are considered in determining zone characteristics?

What characteristics have been adopted?

Have the characteristics of zones ever been modeled or tested?

What were the results?

Have established zones ever been inspected or monitored?

What were the results?

What methods are used to insure that dredging does not impact the zones of avoidance?

Have post dredging or construction surveys ever been carried out?

What were the results?

Has any plan or design modeling and testing been considered?

How would you design and monitor a zone of avoidance?

How would you assess the existing zone of avoidance parameters?

If you would be willing to review and comment on the compiled results of the MMS survey please indicate: Yes___ No___

Thank you for taking the time to respond to this inquiry.

Please return to:

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